

1        1.     A method of storing channel information in a digital television receiver,  
2        comprising:

3                tuning to a selected physical channel;

4                reading program specific information on the selected physical channel;

5                storing an indication of whether the physical channel is a PSIP compliant  
6        channel;

7                if the selected physical channel is a PSIP compliant channel:

8                        storing a TSID corresponding to the selected physical channel; and

9                        storing a major channel corresponding to the selected physical  
10        channel.

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12        2.     The method of claim 1, further comprising:

13                incrementing the physical channel;

14                tuning to the incremented physical channel;

15                reading program specific information on the incremented physical channel;

16                storing an indication of whether the incremented physical channel is a PSIP  
17        compliant channel;

18                if the incremented physical channel is a compliant PSIP channel:

19                        storing a TSID corresponding to the incremented physical channel;

20                and

21                        storing a major channel corresponding to the incremented physical  
22        channel.

1        3.     The method of claim 2, further comprising after the incrementing,  
2        determining if selected physical channel is a last physical channel, and if so, then  
3        stopping.

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5        4.     The method of claim 1, wherein each storing act comprises storing in a  
6        lookup table.

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8        5.     The method of claim 4, wherein the lookup table is stored in a non-volatile  
9        memory device.

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11       6.     The method of claim 1, wherein each storing act comprises storing in a  
12       separate one of three lookup tables.

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14       7.     The method of claim 6, wherein the three lookup tables are stored in a non-  
15       volatile memory device.

1        8.     A method of autoprogramming channel information in a digital television  
2        receiver, comprising for each of a plurality of N physical channels:  
3                tuning to a selected physical channel;  
4                reading program specific information on the selected physical channel;  
5                storing an indication of whether the physical channel is a PSIP compliant  
6        channel;  
7                if the selected physical channel is a compliant PSIP channel:  
8                        storing a TSID corresponding to the selected physical channel; and  
9                        storing a major channel corresponding to the selected physical  
10        channel.

1        9.     A method of storing channel information in a digital television receiver,  
2        comprising:  
3                tuning to a selected physical channel;  
4                reading program specific information on the selected physical channel;  
5                storing an indication of whether the physical channel is a PSIP compliant  
6        channel;  
7                if the selected physical channel is a PSIP compliant channel:  
8                        storing a TSID corresponding to the selected physical channel;  
9                        storing a major channel corresponding to the selected physical  
10        channel;  
11                incrementing the physical channel;  
12                tuning to the incremented physical channel;  
13                reading program specific information on the incremented physical channel;  
14                storing an indication of whether the incremented physical channel is a PSIP  
15        compliant channel;  
16                if the incremented physical channel is a compliant PSIP channel:  
17                        storing a TSID corresponding to the incremented physical channel;  
18                and  
19                        storing a major channel corresponding to the incremented physical  
20        channel.  
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1 10. The method of claim 9, further comprising after the incrementing,  
2 determining if selected physical channel is a last physical channel, and if so, then  
3 stopping.

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5 11. The method of claim 9, wherein each storing act comprises storing in a  
6 lookup table.

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8 12. The method of claim 11, wherein the lookup table is stored in a non-volatile  
9 memory device.

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11 13. The method of claim 9, wherein each storing act comprises storing in a  
12 separate one of three lookup tables.

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14 14. The method of claim 13, wherein the three lookup tables are stored in a non-  
15 volatile memory device.